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(54) MACHINE OIL COMPOSITION FOR REFRIGERATOR AND LUBRICATION USING THE SAME

(57)Abstract:
PROBLEM TO BE SOLVED: To obtain a machine oil composition for refrigerators that is increased in lubrication properties, sealing properties and refrigeration efficiency by using a specific refrigerant and a specific base oil.
SOLUTION: This machine oil composition comprises (A) a refrigerant mainly containing 1-8C hydrocarbons and (B) a polyether represented by formula I [R1 is an aromatic nucleus-bearing n-valent group; R2 is a 2-6C polymethylene, a group of polymelthylene of which one or more H atoms are substituted with a 1-20C alkyl, a group of polymethylene of which one or more H atoms are substituted with the group of formula II (R4 is methylene, ethylene; R5 is a 2-6C polymethylene or the like; R6 is H, a 1-10C alkyl; (p) is 0-80); R3 is H, a 1-10C alkyl; (n) is 1-6; (m) is a number that the average value of (m) x (n) becomes 3-80] (the dynamic viscosity is preferably 5-1,000 mm2/s). In a preferred embodiment, the weight ratio of the components A/B is 99/1-10/90, and a lubricant composition containing the machine oil is used to lubricate a compression type refrigerator.

$$R^1 - [(OR^2)_m - OR^3]_n \quad \text{I}$$

$$-R^4 - (OR^5)_p - OR^6 \quad \text{II}$$

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